Pemphigus pathogenesis

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Stellingen behorend bij het proefschrift

Pemphigus Pathogenesis

Insights from light and electron microscopy studies

1 Pemphigus foliaceus is a desmoglein depletion disease *(this thesis)*.

2 Pemphigus autoantigens have important roles beyond cell-cell adhesion: desmoglein 1 in epithelial stratification, and desmoglein 3 in regulation of actin dynamics *(reviewed in this thesis).*

3 Pemphigus autoantibodies induce invaginations between neighboring cells *(this thesis).*

4 Nanotomy allows digital zooming and panning in ultrastructural human tissue datasets, like Google Earth does in geographic datasets *(this thesis).*

5 Cultured keratinocyte model does not mimic skin in the study of pemphigus.

6 The ease of observing patient skin and mucosa, as well as the ease to obtain patient tissue and blood, makes pemphigus one of the most suited disorders to study autoimmune processes.

7 Double membranes have different meanings in different research societies.

8 "The gifts of microscopes to our understanding of cells and organisms is so profound that one has to ask: What are the gifts of the microscopist? Here is my opinion. The gift of the great microscopist is the ability to think with the eyes and see with the brain.. Deep revelations into the nature of living things continue to travel on beams of light." *(Daniel Mazia)*

9 ''No amount of experimentation can ever prove me right; a single experiment can prove me wrong". *(Albert Einstein)*

10 Life is like a lab protocol, with rules and steps, do's and don'ts, but without improvisation results cannot be achieved.

11 Dermatologists and microscopists have one thing in common: their main research tools are their eyes.

Ena Sokol, Groningen, 6 januari 2016